

REMARKS

Favorable reconsideration of this application in light of the following discussion is respectfully requested.

Claims 1-9 are pending in this case.

In the outstanding Office Action, claims 1-3 and 5 were rejected under 35 U.S.C. §102(b) as anticipated by Raleigh (WO 98/09381, hereinafter referred to as Raleigh). Claims 4, 6 and 7 were objected to as being dependent upon a rejected base claim. Claims 8 and 9 are allowed.

35 U.S.C. §102(b) REJECTIONS

Claims 1-3 and 5 under 35 U.S.C. §102(b) as being anticipated by Raleigh. Applicants respectfully traverse this rejection.

With respect to claim 1, The Examiner contends that Raleigh discloses a signal processing unit storing “information about the transfer functions of radiofrequency signals from each of the antennas of the first sets to each of the antennas of the second sets and/or vice versa,” on page 6 lines 14-31 and page 19 lines 6-28. However, Applicants find no teaching of the elements as recited above in the pertinent sections of Raleigh cited on page 3 of the outstanding Office Action.

Applicants assert that Raleigh is directed towards a digital wireless communication system. Specifically, with respect to FIG. 7, Raleigh is directed towards transmission between M_T antenna elements at a base station (B) and M_R antenna elements at a subscriber unit (S). A spatial channel characterised by a channel matrix H couples the antenna elements at the base station with the antenna elements of a subscriber unit (page 6: 14-19). Channel matrix H is used to determine a number of spatio-temporal channels, and to encode a plurality of information

signals into a sequence of transmitted signal factors. The base station (B) computes spatio-temporal downlink subchannel information from downlink channel information fed back from the subscriber, and encodes the downlink signal information in accordance with the resultant information (page 19: 6-11). Similarly, the subscriber performs the same functions for the uplink channel using information fed back from the base station.

In view of the above discussion, Applicants assert that Raleigh fails to teach a signal processing unit storing "information about the transfer functions of radio frequency signals from each of the antennas of the first sets to each of the antennas of the second sets and/or vice versa," as recited in claim 1. Thus, the cited prior art fails to teach or suggest every feature recited in the Applicants' claims, and independent claim 1 and all claims which depend therefrom are believed to be patentably distinguishable over the cited prior art. Reconsideration of the above rejections is respectfully requested.

CONCLUSION

In view of above remarks, reconsideration of the outstanding rejection and allowance of the pending claims is respectfully requested.

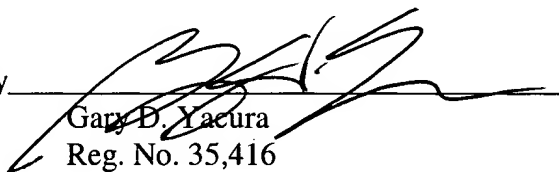
If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to contact Andrew M. Waxman, Reg. No. 56,007, at the telephone number of the undersigned listed below.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.

Very truly yours,

HARNESS, DICKEY & PIERCE, PLC

By



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